

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: May 29, 2002, 11:38:47 : Search time 14.52 Seconds
(without alignments)
1088.386 Million cell updates/sec

Title: US-08-485-355b-50
Perfect score: 3374
Sequence: 1 MGDAGVAGSQRPNNRGTNRV.....GKIAARVARRARRARRARAN 647

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

1: /cgn2_6/ptodata/2/1aa/5A.COMB.pep:*
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3: /cgn2_6/ptodata/2/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/2/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/2/1aa/PTUS.COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3374	100.0	647	US-08-485-355B-50	Sequence 50, Appl
2	3374	100.0	647	US-09-194-613-3	Sequence 3, Appl
3	3033	89.9	675	US-08-485-355B-52	Sequence 52, Appl
4	289	8.6	634	US-09-194-613-6	Sequence 6, Appl
5	119.5	3.5	907	US-08-783-774-2	Sequence 2, Appl
6	119.5	3.5	907	PCT-US95-04611A-19	Sequence 19, Appl
7	116	3.4	1004	US-09-268-347-30	Sequence 30, Appl
8	113.5	3.4	551	US-08-793-229-32	Sequence 32, Appl
9	113.5	3.4	551	US-09-285-957-32	Sequence 32, Appl
10	113.5	3.4	816	US-07-731-157A-4	Sequence 4, Appl
11	113.5	3.4	816	US-08-229-44B-2	Sequence 2, Appl
12	113.5	3.4	816	US-08-541-780-4	Sequence 4, Appl
13	111	3.3	20	US-08-485-355B-24	Sequence 24, Appl
14	109	3.2	1302	US-08-232-537-2	Sequence 2, Appl
15	108	3.2	591	US-09-199-290-7	Sequence 7, Appl
16	107	3.1	775	US-07-603-133B-12	Sequence 12, Appl
17	106	3.1	618	US-09-199-290-34	Sequence 34, Appl
18	106	3.1	1138	US-08-323-474-8	Sequence 8, Appl
19	106	3.1	1138	US-08-469-537A-98	Sequence 98, Appl
20	106	3.1	1138	US-08-220-240A-5	Sequence 5, Appl
21	105.5	3.1	1611	US-08-804-227C-5	Sequence 5, Appl
22	102.5	3.0	497	US-08-570-311-2	Sequence 2, Appl
23	102.5	3.0	497	US-08-353-485-2	Sequence 2, Appl
24	102.5	3.0	686	US-09-306-922-2	Sequence 2, Appl
25	102.5	3.0	2628	US-08-570-311-14	Sequence 14, Appl
26	102	3.0	666	US-08-737-716-14	Sequence 14, Appl
27	102	3.0	1160	US-08-808-599A-24	Sequence 24, Appl

28	100.5	3.0	562	US-08-687-702-1	Sequence 1, Appl
29	100	3.0	346	US-08-687-702-36	Sequence 36, Appl
30	100	3.0	555	US-08-588-258B-24	Sequence 24, Appl
31	100	3.0	555	US-08-460-505-24	Sequence 24, Appl
32	100	3.0	555	PCT-US96-08295-24	Sequence 24, Appl
33	100	3.0	631	US-08-605-541B-12	Sequence 12, Appl
34	99.5	2.9	1724	US-08-857-076-12	Sequence 12, Appl
35	99.5	2.9	1912	US-08-409-995-4	Sequence 4, Appl
36	99.5	2.9	1912	US-08-685-467-4	Sequence 4, Appl
37	99.5	2.9	2353	US-09-377-155-33	Sequence 33, Appl
38	99.5	2.9	2353	US-08-913-942-4	Sequence 4, Appl
39	99.5	2.9	2354	US-09-669-974-33	Sequence 33, Appl
40	99.5	2.9	2354	US-09-268-347-47	Sequence 47, Appl
41	99.5	2.9	2411	US-09-268-347-36	Sequence 36, Appl
42	98.5	2.9	661	US-08-525-742-2	Sequence 2, Appl
43	98	2.9	292	US-08-286-888B-6	Sequence 6, Appl
44	97.5	2.9	632	US-08-443-104-4	Sequence 4, Appl
45	97.5	2.9	632	US-08-442-859-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
US-08-485-355B-50
Sequence 50, Application US/08485355B
Patent No. 6177075
GENERAL INFORMATION:
APPLICANT: Christian, P. D., Gordon, K. H.J., Hanzlik, T. N.
TITLE OF INVENTION: Insect Viruses and Their Uses in
Protecting Plants
NUMBER OF SEQUENCES: 57
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flehr Hohbach Test Albritton & Herbert LLP
STREET: Four Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,355B
FILING DATE: 07-Jun-1995
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/440,522
FILING DATE: 12-MAY-1995
APPLICATION NUMBER: US 08/089,372
FILING DATE: 08-JUL-1993
APPLICATION NUMBER: AU PL4081/92
FILING DATE: 14-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: Tregartin, Richard F.
REGISTRATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: A-58631-2/RFT/DSS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 647 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 50:
US-08-485-355B-50

Query Match 100.0%; Score 3374; DB 4; Length 647;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 647; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 DANTVFEPANISSMPEFRNNAKGIIDLDSDSIGWYFKYLDPAAGATESARAVGEYSKIPDG 120
QY 121 LKFSVDAEIREIYNECEPVYTVDSVPLDGRQMSLSIFSPMERTAYVAVANENKEMSL 180
DB 121 LKFSVDAEIREIYNECEPVYTVDSVPLDGRQMSLSIFSPMERTAYVAVANENKEMSL 180
QY 181 DVVNDLEMLNADMRVYVDSSEQWINTNDTYYVRIYRLRPYDVPDTEGLVTVSD 240
DB 181 DVVNDLEMLNADMRVYVDSSEQWINTNDTYYVRIYRLRPYDVPDTEGLVTVSD 240
QY 241 YRLTYKAITCEANMPTLVDOGFWIGQYALTPSLPOYDVSEAYALHTLTFARPSSAAL 300
DB 241 YRLTYKAITCEANMPTLVDOGFWIGQYALTPSLPOYDVSEAYALHTLTFARPSSAAL 300
QY 301 AFVWAGLPQGTAPAGTPAMEQASSGGYLTWRHNGTTFPAGSVSYLPEGFALERDND 360
DB 301 AFVWAGLPQGTAPAGTPAMEQASSGGYLTWRHNGTTFPAGSVSYLPEGFALERDND 360
QY 361 GSWTDFASAGDVTYFRQVAVDEVYVTTNNPAGGSAFTFYVRPSSNATYNTYFRNTLLET 420
DB 361 GSWTDFASAGDVTYFRQVAVDEVYVTTNNPAGGSAFTFYVRPSSNATYNTYFRNTLLET 420
QY 421 RPSSRRLELPMPPADFGQTVANNPKIEQSLKETLGCYLVHSMKRNPFQOLTPASSFGAV 480
DB 421 RPSSRRLELPMPPADFGQTVANNPKIEQSLKETLGCYLVHSMKRNPFQOLTPASSFGAV 480
QY 481 SFNNPGYERTRLPDYTGIRDSFDQNMSTAVAHFRSLSHSCSYVTKYQGWEGYNTNTP 540
DB 481 SFNNPGYERTRLPDYTGIRDSFDQNMSTAVAHFRSLSHSCSYVTKYQGWEGYNTNTP 540
QY 541 FGFPAHAGLKNBEIICLADDLATRLTGYYPATDNFAAASAFANMLSSVLKSEATSSI 600
DB 541 FGFPAHAGLKNBEIICLADDLATRLTGYYPATDNFAAASAFANMLSSVLKSEATSSI 600
QY 601 IKSVEGTAVGAOSGLAKLPGLLMSYVGKTAARVRRARRRARAAN 647
DB 601 IKSVEGTAVGAOSGLAKLPGLLMSYVGKTAARVRRARRRARAAN 647

RESULT 2
US-09-194-613-3
; Sequence 3, Application US/09194613
; Patent No. 6251654
; GENERAL INFORMATION:
; APPLICANT: GORDON, Karl H.
; APPLICANT: HANZLIK, Terry N.
; TITLE OF INVENTION: MODIFIED SMALL RNA VIRUSES
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDermott, Will & Emery
; STREET: 600 13th Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3096
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/194,613
; FILING DATE: 30-NOV-1998

CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Bucca Ph.D., Daniel
; REGISTRATION NUMBER: 42,368
; REFERENCE/DOCKET NUMBER: 50179-061
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-756-8007
; TELEFAX: 202-756-8000
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 647 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-194-613-3

Query Match 100.0%; Score 3374; DB 4; Length 647;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 647; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGDGVAASORPHNRGRNVRVSAANTVTVNGRNRORRRTGROVSPDNFTAAADLAQSL 60
DB 1 MGDGVAASORPHNRGRNVRVSAANTVTVNGRNRORRRTGROVSPDNFTAAADLAQSL 60
QY 61 DANTVFEPANISSMPEFRNNAKGIIDLDSDSIGWYFKYLDPAAGATESARAVGEYSKIPDG 120
DB 61 DANTVFEPANISSMPEFRNNAKGIIDLDSDSIGWYFKYLDPAAGATESARAVGEYSKIPDG 120
QY 121 LKFSVDAEIREIYNECEPVYTVDSVPLDGRQMSLSIFSPMERTAYVAVANENKEMSL 180
DB 121 LKFSVDAEIREIYNECEPVYTVDSVPLDGRQMSLSIFSPMERTAYVAVANENKEMSL 180
QY 181 DVVNDLEMLNADMRVYVDSSEQWINTNDTYYVRIYRLRPYDVPDTEGLVTVSD 240
DB 181 DVVNDLEMLNADMRVYVDSSEQWINTNDTYYVRIYRLRPYDVPDTEGLVTVSD 240
QY 241 YRLTYKAITCEANMPTLVDOGFWIGQYALTPSLPOYDVSEAYALHTLTFARPSSAAL 300
DB 241 YRLTYKAITCEANMPTLVDOGFWIGQYALTPSLPOYDVSEAYALHTLTFARPSSAAL 300
QY 301 AFVWAGLPQGTAPAGTPAMEQASSGGYLTWRHNGTTFPAGSVSYLPEGFALERDND 360
DB 301 AFVWAGLPQGTAPAGTPAMEQASSGGYLTWRHNGTTFPAGSVSYLPEGFALERDND 360
QY 361 GSWTDFASAGDVTYFRQVAVDEVYVTTNNPAGGSAFTFYVRPSSNATYNTYFRNTLLET 420
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DB 421 RPSSRRLELPMPPADFGQTVANNPKIEQSLKETLGCYLVHSMKRNPFQOLTPASSFGAV 480
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QY 541 FGFPAHAGLKNBEIICLADDLATRLTGYYPATDNFAAASAFANMLSSVLKSEATSSI 600
DB 541 FGFPAHAGLKNBEIICLADDLATRLTGYYPATDNFAAASAFANMLSSVLKSEATSSI 600
QY 601 IKSVEGTAVGAOSGLAKLPGLLMSYVGKTAARVRRARRRARAAN 647
DB 601 IKSVEGTAVGAOSGLAKLPGLLMSYVGKTAARVRRARRRARAAN 647

RESULT 3
US-08-485-355B-52
; Sequence 52, Application US/08485355B
; Patent No. 6177075
; GENERAL INFORMATION:
; APPLICANT: Christian, P. D., Gordon, K. H.J., Hanzlik, T. N.

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: TITLE OF INVENTION: Insect Viruses and Their Uses in
: Protecting Plants
: NUMBER OF SEQUENCES: 57
: CORRESPONDENCE ADDRESS:
: ADDRESS: Fleier Hobbach Test Albritton & Herbert LLP
: STREET: Four Embarcadero Center, Suite 3400
: CITY: San Francisco
: STATE: California
: COUNTRY: United States
: ZIP: 94111-4187
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/485,355B
: FILING DATE: 07-Jun-1995
: CLASSIFICATION: <Unknown>
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/440,522
: FILING DATE: 12-MAY-1995
: APPLICATION NUMBER: US 08/089,372
: FILING DATE: 08-JUL-1993
: APPLICATION NUMBER: AU PL4081/92
: FILING DATE: 14-AUG-1992
: ATTORNEY/AGENT INFORMATION:
: NAME: Trecartin, Richard F.
: REGISTRATION NUMBER: 31,801
: REFERENCE/DOCKET NUMBER: A-58631-2/RET/DSS
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (415) 781-1989
: TELEFAX: (415) 398-3249
: TELEX: 910 277299
: INFORMATION FOR SEQ ID NO: 52:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 675 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: SEQUENCE DESCRIPTION: SEQ ID NO: 52:
US-08-485-355b-52

Query Match      89.9%; Score 3033; DB 4; Length 675;
: Best Local Similarity 100.0%; Pred. No. 4,1e-279;
Matches 580; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 456 ELPMPPADFGQTVANNKPIEOSLKLKTLGCVLHVKMKNPVQLTPASSFGAVSFNNNGY 515
Oy 488 ERTDLPYTGIRDSFDONMSTAVAHFRSLSHSCSYVTKYQGWEGVTNNVTPGQFAHA 547
Db 516 ERTDLPYTGIRDSFDONMSTAVAHFRSLSHSCSYVTKYQGWEGVTNNVTPGQFAHA 575
Oy 548 GLKNEELICLADLAFRTGVPATDNFAAASVAFANMLSSVLSKSEATSIKSVGET 607
Db 576 GLKNEELICLADLAFRTGVPATDNFAAASVAFANMLSSVLSKSEATSIKSVGET 635
Oy 608 AVGAASGLAKPLGLMSVPGKIAARVARARRARRARAN 647
Db 636 AVGAASGLAKPLGLMSVPGKIAARVARARRARRARAN 675

RESULT 4
US-09-194-613-6
: Sequence 6, Application US/09194613
: Patent No. 6251654
: GENERAL INFORMATION:
: APPLICANT: GORDON, Karl H.
: APPLICANT: HANZLIK, Terry N.
: TITLE OF INVENTION: MODIFIED SMALL RNA VIRUSES
: NUMBER OF SEQUENCES: 22
: CORRESPONDENCE ADDRESS:
: ADDRESS: McDermott, Will & Emery
: STREET: 600 13th Street, N.W.
: CITY: Washington
: STATE: D.C.
: COUNTRY: USA
: ZIP: 20005-3096
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/194,613
: FILING DATE: 30-NOV-1998
: CLASSIFICATION: 424
: ATTORNEY/AGENT INFORMATION:
: NAME: Bucca Ph.D., Daniel
: REGISTRATION NUMBER: 42,368
: REFERENCE/DOCKET NUMBER: 50179-061
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 202-756-8000
: TELEFAX: 202-756-8087
: INFORMATION FOR SEQ ID NO: 6:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 634 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-09-194-613-6

Query Match      8.6%; Score 289; DB 4; Length 634;
: Best Local Similarity 25.7%; Pred. No. 1.4e-18;
Matches 177; Conservative 72; Mismatches 266; Indels 174; Gaps 39;

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Db 589 GISAGNAAKVV--VSGLKRFQD-----ANFPLTSSADNLTKQYDNMAKGLTNDKX 639
QY 539 -----TFP-----GQFAHGLKNEELLCLADLRLTGVYPATONFAAASAFANMLSS 590
Db 640 SKGOTPRVADNTAATYAGDLGLGWISADTKRELKEYNAQVAMANEVAFKSGNGINV 699
QY 591 VLKS-----EATSSIKSVGETAVGAASGL 616
Db 700 SKGLDNGTREITFELAKDENAIAGSGSKAL 731

RESULT 8
US-08-793-229-32
; Sequence 32, Application US/08793229
; Patent No. 5891703
; GENERAL INFORMATION:
; APPLICANT: VAN DER LAAN, Jan Metske
; APPLICANT: RIEMENS, Adriana Martina
; APPLICANT: QUAX, Wilhelmus Johannes
; TITLE OF INVENTION: Mutated Penicillin G Acylase Genes
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boenhen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/793,229
; FILING DATE: 23-Apr-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/03249
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; REFERENCE/DOCKET NUMBER: 97075
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312)913-0001
; TELEFAX: (312)913-0002
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 551 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-793-229-32

Query Match 3.4%; Score 113.5; DB 2; Length 551;
Best Local Similarity 19.0%; Pred. No. 0.053;
Matches 114; Conservative 53; Mismatches 213; Indels 221; Gaps 28;

QY 18 RNVYSANTYVNGRRNRQRTGROVSP-----DNFTAAQDLAOSLDANTVTFPAISS 73
Db 97 RTMDQKREKIQVGOAQRREMTIMTVGPMQDFDGAAYSKKRSWDGYEVOSLLAMLN 156
QY 74 MPEFRMAKGIKIDSD---SIGMYFK-----YLDPAQATESARAVGEYSKIPDGLVK 123
Db 157 VAKARNNTE-FLDOASGMAISIMYIYADKNGNGYSPA-----194
QY 124 FSVDAELREIYNECPVYTVDSVPLDG--RQMSLSIFSPMERTAYVAVAANENKEMSL 180
Db 195 -----FLPQRPADQDQIRVPAKGDGSMEW-LGIKSFDAIPKAV-----NPPQGY 236
QY 181 DVVNDLEIMLNADNRIVYVDSQWIMFTNDTTYVIRIVLRPIYDVDPDEGLVTRVSD 240

Db 237 -----LVNMNKKPAPDKTNTDTYYW-----TYGDMNNELVSOYQOKD---LFSVQEI 280
QY 241 YRLTYKATICEAN-----MPTLVDOGFWIGQYALTPTSLPOYDVSAYALHTLTFAR 293
Db 281 WEFNOKASYSYELVNRIRPRPHLEKLAQO-----LPADSSKA-----316
QY 294 PSSAALAFWAGLPQGGTAPAGTPAWEOASSGGYLTW---RHNGTFFPAGSVSYLPE- 349
Db 317 ---ALTMLAMDGEQOGQGNAGPARVL-----FKTWLEMYKQVLMF-----VYVES 362
QY 350 -----GFALERYPNDQSWTDFASAGDTVTFROVAVDEVYVTTNPPAGGSAPTFTVR 401
Db 363 HRAMYSGTGFATQO--GNPES-----INLSMG-----388
QY 402 VPPSNATNVTFRNTLLETSPSSRRLTLPMPADFGQ-----TYANPKTEIOSLKE 453
Db 389 -----TKVLLRALVLEAPDPKRNV-----FGRRSDEIMHTALQN---AQARLSQ 432
QY 454 TLGCVLVHSMKRNPF-----QLTPASSFGAVSFNNPGYERTRLDPYGTI---499
Db 433 EOGAQMARMTPSTVHRFSQKNFTGTPTQMPGNTFEFTGYQNGTEENRNVVPAKGVFEC 492
QY 500 -----RDSFDQNNSTAVAHFRSLSHSCSTVTKTYQGMGEVTNNTNPFQGFARAGLLKNE 553
Db 493 DAMPGSGFTDRNGVRSPIYED-----QLKYLENFECKTM-----DVTIADIRRNA 539
QY 554 E 554
Db 540 Q 540

RESULT 9
US-09-285-957-32
; Sequence 32, Application US/09285957
; Patent No. 6033823
; GENERAL INFORMATION:
; APPLICANT: VAN DER LAAN, Jan Metske
; APPLICANT: RIEMENS, Adriana Martina
; APPLICANT: QUAX, Wilhelmus Johannes
; TITLE OF INVENTION: Mutated Penicillin G Acylase Genes
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boenhen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/285,957
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/793,229
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; REFERENCE/DOCKET NUMBER: 97075
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312)913-0001
; TELEFAX: (312)913-0002
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 551 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein

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;      COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible

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QY	18	RNVRVSATTVVNRRNRNRRTGQVSP	----	DNFTAAADLOSLDANTVTFPAMISS	73			
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QY	74	MPEFRNNAKKGIDDDSD	----	SIGWYFK	-----	YLDPACKTESARAVGEXSKIPDOLVK	123	
Db	422	VAKANMTE	-FLDASAKMAISINMYADRKHCNIGVSPA	-----	459			
QY	124	FSVDAEIEIENECPPVTVDSVPLDG	----	RQMSLJSFSEPMFRTAVAVANENKEMSL	180			
Db	460	-----	-FLPQRPADODIRVPAAKGSGSEM	-LGKISFPAIKAY	-----	NPPQGY	501	
QY	181	DVANDLLEMLNLADMRVYVDSBQMINFTNDTYYVRI	RVLRPRTYVDVDPDTEGLVRIYSD	240				
Db	502	-----	-LVMMNKKPAPDKTINTDTYYW	-----	TYGDRNELVSQYQKD	-----	LESVOET	545
QY	241	YRLTYKAITCEAN	-----	MPTLVDOGFWIGOGYALTPTSL	PODYVSEAYALHTLTFAR	293		
Db	546	WEFNOKASYDVNNRYFRPHLEKLAQ	-----	LPADDDSSKA	-----	581		
QY	294	PSSAAALFVAAAGLPQGTAPAGPAPMEQASGGYILW	----	RHNGTFFPAGVSUYLPE	349			
Db	562	-----	-ALTMILLADMGMODOGGONAGPARYL	-----	FKTWLEEMTYQVILMP	-----	VVPES	627
QY	350	-----	-GFALERYDPPDGSWMTDFASAGDVTFR	ROYAVDEVVYTNPNPAGGSAPFTYVR	401			
Db	628	HRAMYSQTFATQO	-GPNPGS	-----	INTSMG	-----	653	
QY	402	VPPSAAVNTVFERTLTLETRSSRLLEPMPADFGO	-----	TYANNPKTBOSLKE	453			
Db	654	-----	-TKVLLRALVLEAHDPKRVNV	-----	FGERSOCEIMHTALON	-----	AQAAISQ	697
QY	454	TLGCGYLHVKSRNPF	-----	QLPASSEFGAVSEFNNGEYERDLPDYTG	499			
Db	698	EOGAGOMARWTPSVHRESDKNTFTGTQTMGNAFTGVCNCRGTENNRRVVFPAKGVFPC	757					
QY	500	-----	-RDSFQONNSTAVAHFRSLSHSCSIYTKTYOGMEGVNTNTPFGOF	FAHAGLKE	553			
Db	758	DAMPFGGSGFTDRNGVSPHED	-----	QLKIYENFECKTM	-----	DYTHADITRMA	804	
QY	554	E	554					
Db	805	Q	805					

Query Match 3.4%; Score 113.5; DB 2; Length 816;
 Best Local Similarity 19.0%; Pred. No. 0.1;
 Matches 114; Conservative 53; Mismatches 213; Indels 221; Gaps 28;

QY 18 RNRVRSANTVTYVNGRRNRRTGROVSP-----DNFTAAODLAQSLDANVTTPANISS 73
 DB 362 RTMEORKEIRIQVGOADREMTIMRTVHGVMQFDYDGAAYSKRRSMDCYEVOILLAWLN 421
 QY 74 MEFNNMAKGRIDLSD-----SIGWFEK-----YLDPRGATESARAVEYSKIDGLVK 123
 DB 422 VAKANNWE-FLDQASKMAISINWYAKHGNIGVSPA----- 459
 QY 124 FSVDAEIREIYNEECPPVTVDSVPLDG---RQMSLISFSPMERTAYVAVANENKESL 180
 DB 460 -----FLPQRPADODIRVPAKGDSMEM-LGKSFDAIPKAY-----NPPQGY 501
 QY 181 DAVNDLIEMLNLDAMRYVDSQMINFTNDTYVRIYRLPPTYDVPDPTGELVRYSD 240
 DB 502 -----LVNNNNKPADDKNTDTYYW-----TYGDRMNELVSOYQKD---LFSVQEI 545
 QY 241 YRLTYKAITCEAN-----MPLVDQGFWIGGQYALPFTSLPOYDVSBAVALHILTFAR 293
 DB 546 WEFNOKASTSDVNMRYFRPHLEKLAQ-----LPADSSKA----- 581
 QY 294 PSSAALAFVWAGLPDGGTAPAGTPAMEQASSGYLTW---RHNGTTFPAGSVSYLPE- 349
 DB 582 ---ALTMILAMGMDGMDGGQAGAPARVL---FKTWLEENYKQYLLMP-----VPPES 627
 QY 350 -----GFALERDPPNDGSWTDFASAGDIYTFROVADEVVYVNNPAGGSAPFTYVR 401
 DB 628 HRAMYSQGFATQO-GPNNGS-----INLSNG----- 653
 QY 402 VPPSNAYTNTVPRNTLLETRPSSRLELPMPPADFGQ-----TVANNPTEOSLKE 453
 DB 654 -----TKVLRALVLEHNPDKRYN-----FGRRSSQEIIMHTALON---AQRRLSQ 697
 QY 454 TLGCVLHSHKMRPVF-----QUTPASSFGAVSFNNPGYERTEDLPDYGI--- 499
 DB 698 ECGAQMAMRWMTPTSVHRSDDKNFTGTPTQPMGNTFAFGYQNRGTENNRRVVDAGVEHC 757
 QY 500 -----RDSFDQNMSTAHAHFSLSHSCSIYTKYQGMEGVYNNVTPGQFHAHLKME 553
 DB 758 DAMPGQSGFTDRNGVRSPHYED-----QIKLYNEFECKTM-----DYTHADIRRNA 804
 -QY 554 E 554
 DB 805 Q 805

RESULT 13
 US-08-485-355B-24
 : Sequence 24, Application US/08485355B
 : Patent No. 6177075
 : GENERAL INFORMATION:
 : APPLICANT: Christian, P. D., Gordon, K. H. J., Hanzlik, T. N.
 : TITLE OF INVENTION: Insect Viruses and Their Uses in
 : Protecting Plants
 : NUMBER OF SEQUENCES: 57
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Fleier Hohbach Test Albritton & Herbert LLP
 : STREET: Four Embarcadero Center, Suite 3400
 : CITY: San Francisco
 : STATE: California
 : COUNTRY: United States
 : ZIP: 94111-4187
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: Patent Release #1.0, Version #1.30
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/485,355B

FILING DATE: 07-Jun-1995
 CLASSIFICATION: <unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/440,522
 FILING DATE: 12-MAY-1995
 APPLICATION NUMBER: US 08/089,372
 FILING DATE: 08-JUL-1993
 APPLICATION NUMBER: AU PL4081/92
 FILING DATE: 14-AUG-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Treccatin, Richard F.
 REGISTRATION NUMBER: 31,801
 REFERENCE/DOCKET NUMBER: A-58631-2/RT/DS
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 781-1989
 TELEFAX: (415) 398-3249
 TELEX: 910 277299
 INFORMATION FOR SEQ ID NO: 24:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 20 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 24:
 US-08-485-355B-24

Query Match 3.3%; Score 111; DB 4; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.0003;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 255 PTLVDQGFWIGGQYALTPTS 274
 DB 1 PTLVDQGFWIGGQYALTPTS 20

RESULT 14
 US-08-232-537-2
 : Sequence 2, Application US/08232537
 : Patent No. 5516655
 : GENERAL INFORMATION:
 : APPLICANT: Peery, Robert B.
 : APPLICANT: Skatrud, Paul L.
 : TITLE OF INVENTION: MULTIPLE DRUG RESISTANCE GENE OF
 : AUREOBASIDIUM PULLULANS
 : NUMBER OF SEQUENCES: 4
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Eli Lilly and Company
 : STREET: Lilly Corporate Center
 : CITY: Indianapolis
 : STATE: Indiana
 : COUNTRY: USA
 : ZIP: 46285
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: Patent Release #1.0, Version #1.25
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/232,537
 : FILING DATE:
 : CLASSIFICATION: 435
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Plant, Thomas G.
 : REGISTRATION NUMBER: 35,784
 : REFERENCE/DOCKET NUMBER: X9212
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: 317-276-2459
 : TELEFAX: 317-276-1917
 : INFORMATION FOR SEQ ID NO: 2:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 1302 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-232-537-2

Query Match 3.2%; Score 109; DB 1; Length 1302;
Best Local Similarity 22.7%; Pred. No. 0.62;
Matches 93; Conservative 52; Mismatches 147; Indels 118; Gaps 22;

QY 264 IGGGYALPTSLPOYSEAYALHTLTFARPSSAALAFWAGLPQGTAPAGTPAME-- 321
DB 291 LSAHTAI-----RKSSAAMFL-GLVFTAYSANALAF-----WEGS 326
QY 322 --QASSGGLYLRHNGCTTPAGSVSYLPEGFALERYPDNGSWTDFASAGDTVTFROVA 379
DB 327 RLAAESS-----NAGGVYAV--VFLLIDASFVVGCGPFLGSPATMAAGESV----- 374
QY 380 VDEVYVTNMP-----AGGSAPFTVVRVPPSNAYNTVFRNT--LLETTPSSRRLE-- 428
DB 375 ---YEILNHPOSEINVSSEAGQEAET-----ESDMKADLVFRNVTVEYVPAARTSARALEEM 425
QY 429 -LMPFPADPGQTYANNKIKOSILKEILGCVLVSKMRNFVOLTTPASSFGAVSFNNPGY 487
DB 426 SLIKKAGQMAIVGTSCGKSTLVSLRLYDSSG-----QLT-IGSHDIKDFN---- 474
QY 488 ERTTDLPTDYTGIRD-----SFQNMSTAVAHFRSLSHSCSIYTKYOGWEGVTWNT 539
DB 475 --VRSJMKYIALVDQDSVLFSGSVLENISYGLG-----EHSLSDDVYLEGCTEAKKANL 527
QY 540 PEGOFANAGLL-----KNEELCLADLDTLTLGVYPA---TDNFAA AVSA 582
DB 528 DPFVDFPQGHTRIGNGYTSLSGQGNORI-CLARALYKR-----PALLLLDDEFTALDA 581
QY 583 FAANMLSSVLSKSEATSIISKSVGETAVGAO--SGLAKLGLLMSVSGKI 630
DB 582 NSEGLMDAVKS-----VAATGTTVMVAHRSLTVSDSPNIVLMGAKV 625

RESULT 15
US-09-199-290-7
; Sequence 7, Application US/09199290
; Patent No. 625084
; GENERAL INFORMATION:
; APPLICANT: Nielsen, Bjarne R.
; APPLICANT: Nielsen, Ruby
; APPLICANT: Lehmbeck, Jan
; TITLE OF INVENTION: Thermostable Glucoamylase
; FILE REFERENCE: 5279.200-US
; CURRENT APPLICATION NUMBER: US/09/199,290
; EARLIER FILING DATE: 1998-11-24
; EARLIER APPLICATION NUMBER: 1557/97
; EARLIER FILING DATE: 1997-12-30
; EARLIER APPLICATION NUMBER: 0925/98
; EARLIER FILING DATE: 1998-07-10
; EARLIER APPLICATION NUMBER: 60/070,746
; EARLIER FILING DATE: 1998-01-08
; EARLIER APPLICATION NUMBER: 60/094,344
; EARLIER FILING DATE: 1998-07-28
; EARLIER APPLICATION NUMBER: 08/979,673
; EARLIER FILING DATE: 1997-11-26
; EARLIER APPLICATION NUMBER: 09/107,657
; EARLIER FILING DATE: 1998-06-30
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 591
; TYPE: PRT
; ORGANISM: Talaromyces emersonii
US-09-199-290-7

Query Match 3.2%; Score 108; DB 4; Length 591;

Best Local Similarity 19.4%; Pred. No. 0.2;
Matches 90; Conservative 55; Mismatches 180; Indels 140; Gaps 20;

QY 49 FTAAODLAOSLDANTVTPFAN-----ISSMEPEF-----RMV-----ANKIDL 87
DB 188 FTTAVOHRALVEGNALATLHNTCSNCVSOAVQLCFLOSITGTYLVANFGSGRSGK 246
QY 88 DSDSIGWYFYLLDPAGATE-----SARAVGEYSKIPDGLVFSVDAEIREIYNECEPV 140
DB 247 DVNSIIGSIHTFPDAGCDDSTFQPCASARALANHKVYTD-----SFRSIYAINSGI 297
QY 141 VTDSYVPLDGR-----QW-----SLSTFSPMERFA 166
DB 298 AEGSAVAV-GRYPEDVYQGNPMPLYATAAEOLYDAIYQMKRIGSISITDVSILPFODI 356
QY 167 YVAVAVENKEMSLDYYVNDLIEWLNLMADRRVYVDSBOWINFTNDTTYVRIHLVRLPTYD 226
DB 357 YPSAA-VGTYNSGSTITFNDIISAVQTYGDIYLVKEIYTPSDGSLTEQFSR----- 406
QY 227 VPDPTEGLVTVSDYRLTYKA-ITCEANMPTLVDOGFWIGQYALPTSLPOYDSEAVA 285
DB 407 ---TDCTPLSASALMWSVSLTLTASARQSV-----PASWGESASSVLA 449
QY 286 LHTLTFARPSSAALAFWAGLPQ-----GTAPACTPAMEOASSGGLYLRHNGCTTPFA 340
DB 450 VCSATSGTGPYSTATNTVWPSGSGSTTTSAPCTTPTSVAATFDEIYVTSYGETIYLA 509
QY 341 GSVSYVLPPEGFALERYPDNGSWTDFASAGDTVTFROVADEVVYVNNPAGGSAFTFY 400
DB 510 GST-----PELGNM-----STASAIPLRA-----DAYTNSNPLM-----YVIV 542
QY 401 RVPPSNAYNTVFRN---LLETTPSSRRLELMPDPADGQTV 441
DB 543 NLPPGTSFEYKFFKNOTDGTIVMEDDPNRSYTV---PAYCGQTTA 584

Search completed: May 29, 2002, 11:39:56
Job time: 69 sec